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APPLICATION NO	. Г	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/523,699 02/03/2005		02/03/2005	Junzo Nagashima	8014-1086	8540
466	7590	09/06/2006		EXAMINER	
YOUNG &	& THOM	PSON	ZIMMERMAN, JOSHUA D		
745 SOUT		TREET	ART UNIT	PAPER NUMBER	
ARLINGT	ON, VA	22202	2854		
				DATE MAILED: 09/06/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application !	10.	Applicant(s)					
		10/523,699		NAGASHIMA, JUNZO					
	Office Action Summary	Examiner		Art Unit					
		Joshua D. Zin		2854					
Period fo	The MAILING DATE of this communication a or Reply	appears on the co	ver sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1) 又	Responsive to communication(s) filed on 04	1 August 2006.							
• —	This action is FINAL . 2b) This action is non-final.								
3)□	Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4)⊠	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-18</u> is/are rejected.								
•	Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Applicati	ion Papers								
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority (under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
A									
Attachmen 1) Notice	nt(s) ce of References Cited (PTO-892)	<i>A</i> \	☐ Interview Summary	(PTO-413)					
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate	0.450)				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date	,00,	Notice of Informal P Other:	atent Application (PT	O-152)				

Art Unit: 2854

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-3, 5 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Bernstein (US 4,641,579).

Regarding claim 1, Bernstein teaches "a method of supplying a dampening solution for an offset printing machine comprising the steps of:

detecting a viscosity of a dampening solution (column 5, lines 40-44 and 53-62),

selectively adding water (column 4, lines 24-26) and a surface active agent (column 6, lines 43-45. Applicant may refer to column 2, lines 35-39 of US 5,308,610 to Bowman et al. or column 6, lines 20-22 of US 4,136,739 to Salathiel et al. which indicate that ethylene glycol monobutyl ether is a surface active agent) to the dampening solution so as to obtain a treated dampening solution with an aimed viscosity value (column 5, lines 40-44 and 53-56),

supplying the treated dampening solution having the aimed viscosity value to the offset printing machine (column 1, lines 27-29 and column 5, lines 53-62), and

further adding a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated

Art Unit: 2854

dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Regarding claim 2, Bernstein teaches "a method of supplying dampening solution for an offset printing machine comprising the steps of:

detecting a viscosity of a dampening solution at (column 5, lines 40-44 and 53-62),

selectively adding water, (column 4, lines 24-26) a surface active agent (column 6, lines 43-45) and a viscosity increasing agent (column 5, lines 40-44) to the dampening solution so as to obtain a treated dampening solution with an aimed viscosity value of (column 5, lines 40-44 and 53-56),

supplying the dampening solution having the aimed viscosity value to the offset printing machine (column 1, lines 27-29 and column 5, lines 53-62), and

further adding a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Regarding claim 3, Bernstein teaches "a method of supplying dampening solution for an offset printing machine comprising the steps of:

detecting a viscosity of a dampening solution at (column 5, lines 40-44 and 53-62),

Art Unit: 2854

selectively adding water (column 4, lines 24-26), an etchant (column 4, lines 24-26) and a viscosity increasing agent (column 5, lines 40-44) to the dampening solution so as to obtain a treated dampening solution with an aimed pH value and an aimed viscosity value (column 5, lines 40-44 and 53-56),

supplying the treated dampening solution having the aimed pH value and the aimed viscosity value to the offset printing machine (column 1, lines 27-29 and column 5, lines 53-62), and

further adding a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Regarding claim 5, Bernstein discloses "an apparatus for supplying a dampening solution for an offset printing machine comprising a mixing tank for adjusting a dampening solution (column 5, lines 34-36), a viscosity measuring unit for measuring a viscosity of the dampening solution in the mixing tank (column 5, 40-45), an adding unit for selectively adding water and a surface active agent to the dampening solution in the mixing tank so as to obtain a treated dampening solution with an aimed viscosity value (column 5, lines 31-34 and column 6, lines 47-51), and a supply unit for supplying the treated dampening solution having the aimed viscosity value to the offset printing machine (column 5, lines 37-40),

wherein the adding unit further adds a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Regarding claim 6, Bernstein discloses "an apparatus for supplying a dampening solution for an offset printing machine comprising: a mixing tank for adjusting a dampening solution (column 5, lines 34-36), a viscosity measuring unit for measuring a viscosity of the dampening solution in the mixing tank (column 5, 40-45), an adding unit for selectively adding, a surface active agent and viscosity increasing agent to the dampening solution in the mixing tank so as to obtain a treated dampening solution with an aimed viscosity value (column 5, lines 31-34 and column 6, lines 47-51), and a supply unit for supplying the treated dampening solution having the aimed viscosity value to the offset printing machine (column 5, lines 37-40),

wherein the adding unit further adds a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Application/Control Number: 10/523,699 Page 6

Art Unit: 2854

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein in view of MacPhee (US 5,713,282).

Claims 1, 2 and 3 have been addressed above.

Regarding claims 4, 11 and 12, Bernstein fails to specifically disclose that "the dampening solution is additionally supplied to the offset printing machine by an amount corresponding to a consumed amount thereof through a one-way manner." MacPhee discloses a dampening system that measures and controls the level of dampening fluid via a valve and one-way pipe (see claims 1 and 3, figures 11 and 12, specifically item 43 of figure 7). The dampening fluid supply and control means of MacPhee is provided in order to prevent fluid starvation at the nip (column 10, lines 43-47). Fluid starvation would directly result from the consumption of dampening fluid. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the fluid supply and control means of MacPhee in combination with the dampening system of Bernstein in order to prevent fluid starvation at the nip.

4. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein in view of MacPhee (US 5,713,282).

Regarding claims 8 and 9, Bernstein discloses all that is claimed in claims 5 and 6, as discussed above. Bernstein fails to disclose "wherein the supply unit for supplying the dampening solution to the offset printing machine is provided with a one-way conduit connecting the mixing tank to a dampening fountain. a water-level meter for detecting water-level of the dampening solution in the dampening fountain, and a valve for additionally supplying the dampening solution to the dampening fountain by opening the one-way conduit in response to a signal form the water-level meter." MacPhee discloses a dampening system "wherein the supply unit for supplying the dampening solution to the offset printing machine is provided with a one-way conduit connecting the mixing tank to a dampening fountain (see specifically claims 1 and 3, figures 11 and 12, specifically item 43 of figure 7), a water-level meter for detecting water-level of the dampening solution in the dampening fountain (claim 3), and a valve for additionally supplying the dampening solution to the dampening fountain by opening the one-way conduit in response to a signal form the water-level meter such a fountain supply system (claim 3), wherein dampening solution is fed in one direction based upon a signal received from a level meter (claim 3). The dampening fluid supply and control means of MacPhee is provided in order to prevent fluid starvation at the nip (column 10, lines 43-47). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the

Art Unit: 2854

fluid supply and control means of MacPhee in combination with the dampening system of Bernstein in order to prevent fluid starvation at the nip.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein in view of applicant's admitted prior art.

Regarding claim 7, Bernstein discloses "an apparatus for supplying a dampening solution for an offset printing machine comprising: a mixing tank for adjusting a dampening solution (column 5, lines 34-36), a viscosity measuring unit for measuring a viscosity of the dampening solution in the mixing tank (column 5, 40-45), an adding unit for selectively adding water, an etchant and a viscosity increasing agent to the dampening solution in the mixing tank so as to obtain a treated dampening solution with an aimed pH value and an aimed viscosity value (column 5, lines 31-34 and column 6, lines 47-51), and a supply unit for supplying the treated dampening solution having the aimed pH value and the aimed viscosity value to an offset printing machine (column 5, lines 37-40),

wherein the adding unit further adds a viscosity increasing agent to the treated dampening solution to increase the viscosity to the aimed viscosity value when the treated dampening solution is increased in temperature, the temperature increase causing the viscosity to decrease below the aimed viscosity value (column 5, lines 53-62)."

Bernstein does not specifically disclose "a pH concentration measuring unit for measuring pH value of the dampening solution in the mixing tank."

Bernstein does, however, imply the measurement and control of the pH, and

further teaches the ability to adjust the pH of the fountain solution to achieve an aimed pH (column 6, lines 29-32). Applicant's admitted prior art discloses an automatic adjusting apparatus which performs a pH adjustment, said apparatus including a pH detector (page 3, lines 10-19). It would have been obvious to one of ordinary skill in the art at the time of the invention to include the pH detector of admitted prior art into the apparatus of Bernstein in order to control the pH of the dampening solution and achieve the desired pH value, as taught by Bernstein.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over 6. Bernstein in view of applicant's admitted prior art, as applied to claim 7 above, further in view of MacPhee. Bernstein in view of admitted prior art does not disclose "wherein the supply unit for supplying the dampening solution to the offset printing machine is provided with a one-way conduit connecting the mixing tank to a dampening fountain, a water-level meter for detecting water-level of the dampening solution in the dampening fountain, and a valve for additionally supplying the dampening solution to the dampening fountain by opening the oneway conduit in response to a signal form the water-level meter." MacPhee discloses a dampening system "wherein the supply unit for supplying the dampening solution to the offset printing machine is provided with a one-way conduit connecting the mixing tank to a dampening fountain (see specifically claims 1 and 3, figures 11 and 12, specifically item 43 of figure 7), a water-level meter for detecting water-level of the dampening solution in the dampening fountain (claim 3), and a valve for additionally supplying the dampening solution to the dampening fountain by opening the one-way conduit in response to a

signal form the water-level meter such a fountain supply system (claim 3), wherein dampening solution is fed in one direction based upon a signal received from a level meter (claim 3). The dampening fluid supply and control means of MacPhee is provided in order to prevent fluid starvation at the nip (column 10, lines 43-47). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the fluid supply and control means of MacPhee in combination with the dampening system of Bernstein in view of admitted prior art in order to prevent fluid starvation at the nip.

7. Claims 13-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein.

Regarding claims 13-17, Bernstein teaches all that is claimed, but fails to specifically disclose that the aimed viscosity value is 1.3 poise. Bernstein does teach the desire to change the viscosity in order to improve press operations (column 5, lines 56-60). Moreover, the viscosity of the dampening solution is a results effective variable, affecting the amount of dampening solution on the printing plate. Therefore, it would have been obvious to one having ordinary skill in the art, through routine experimentation, to make the dampening solution wherein "the aimed viscosity value is at least 1.3 poise" in order to find the optimal value for press operations.

8. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bernstein in view of AAPA, as applied to claim 7 above.

Regarding claim 18, Bernstein in view of AAPA teaches all that is claimed, but fails to specifically disclose that the aimed viscosity value is 1.3 poise.

Bernstein in view of AAPA does teach the desire to change the viscosity in order to improve press operations (column 5, lines 56-60). Moreover, the viscosity of the dampening solution is a results effective variable, affecting the amount of dampening solution on the printing plate. Therefore, it would have been obvious to one having ordinary skill in the art, through routine experimentation, to make the dampening solution wherein "the aimed viscosity value is at least 1.3 poise" in order to find the optimal value for press operations.

Response to Arguments

9. Applicant's arguments filed 08/04/2006 have been fully considered but they are not persuasive. The references still read on the new limitations as outlined in the above rejection.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will

the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua D. Zimmerman whose telephone number is 571-272-2749. The examiner can normally be reached on M-R 8:30A - 6:00P, Alternate Fridays 8:30A-5:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua D Zimmerman Examiner Art Unit 2854

idz

RENYAN PRIMARY EXAMINER